

3. EMPIRICAL ANALYSIS: THE CASE OF ARGENTINA

FIGURE 3. Argentina's Misreport of Inflation and Decoupling of Spreads

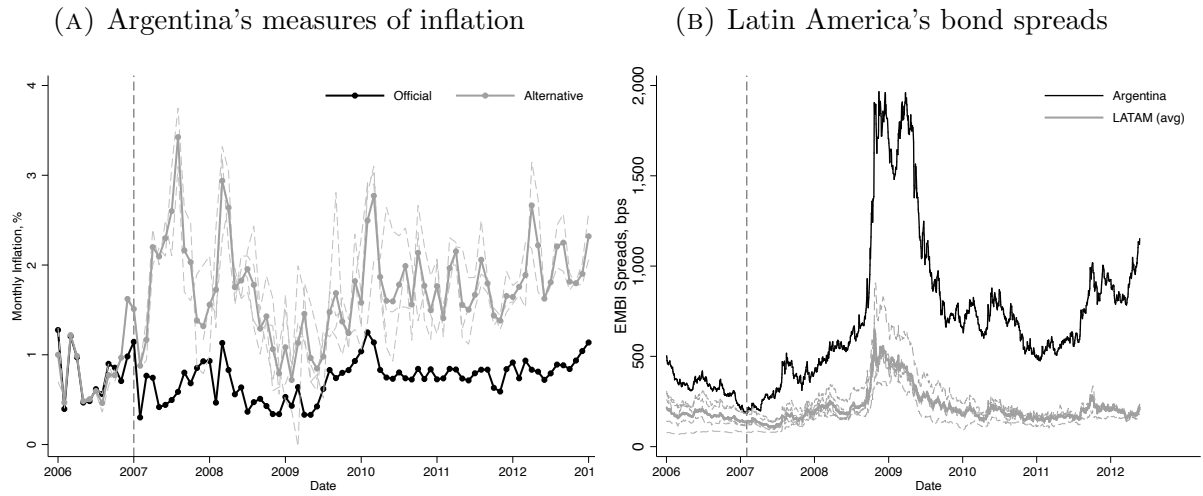


FIGURE 4. Break-even Inflation Rate

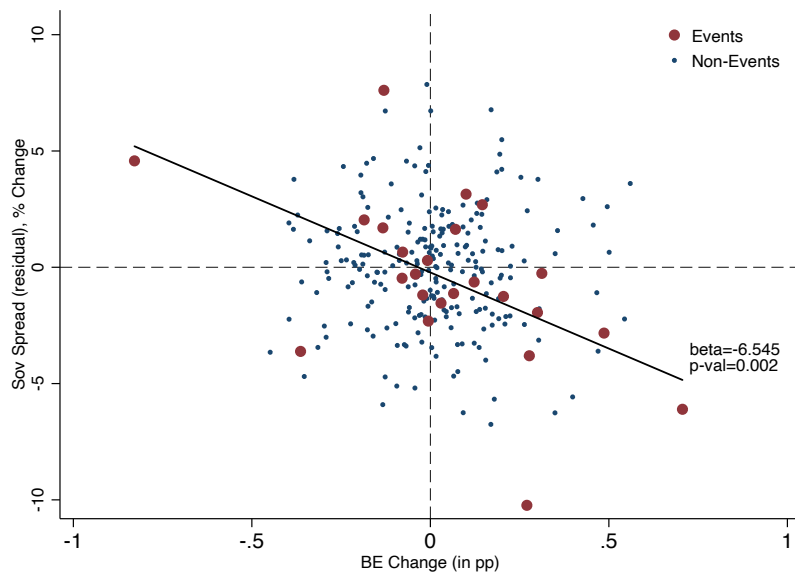


TABLE 1. Summary Statistics

Moments	Non-Event	Event
Mean $\Delta \ln(SP)$	0.055	-0.554
SD $\Delta \ln(SP)$	2.717	3.569
Mean ΔBE	0.007	0.029
SD ΔBE	0.189	0.294
Cov($\Delta \ln(SP), \Delta BE$)	-0.017	-0.573
Observations	234	24

TABLE 2. Effects of Inflation Misreport on Sovereign Spreads

	(1)	(2)	(3)	(4)
ΔBE	-10.437***	-11.130***	-8.562***	-9.443***
95perc CI	[-15.63, -5.27]	[-17.27, -5.80]	[-13.94, -2.88]	[-14.44, -3.48]
Observations	258	255	67	79
Events	2-day window	3-day window	2-day window	3-day window
Non-events	All other days	All other days	4-day window	4-day window
Controls	Yes	Yes	Yes	Yes

FIGURE 5. OLS Estimates - Rolling Windows

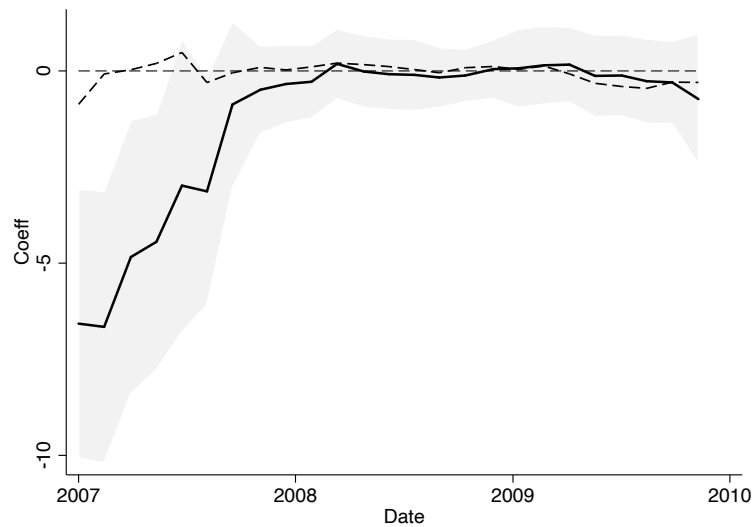


TABLE 3. Effects of Inflation Misreport on Stock Returns

	(1)	(2)	(3)	(4)
ΔBE	0.246	0.351	0.035	-0.063
95perc CI	[-1.31, 1.71]	[-1.44, 1.91]	[-2.19, 1.41]	[-1.96, 1.33]
Observations	241	238	62	74
Events	2-day window	3-day window	2-day window	3-day window
Non-events	All other days	All other days	4-day window	4-day window
Controls	Yes	Yes	Yes	Yes

APPENDIX B. EMPIRICAL ANALYSIS

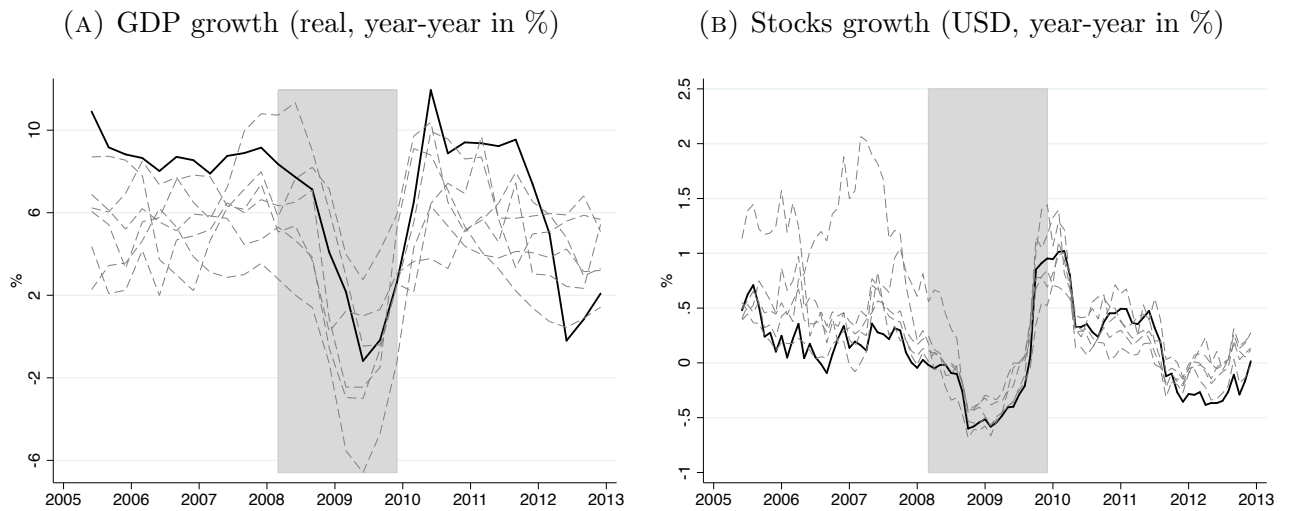
B.2. List of Event Days. List

TABLE B.1. Reporting Dates

Event	Month	Reported Day	Rate (%)	Event	Month	Reported Day	Rate (%)
1	Jan-07	2/5/2007	1.14	25	Jan-09	2/11/2009	0.53
2	Feb-07	3/5/2007	0.30	26	Feb-09	3/11/2009	0.43
3	Mar-07	4/11/2007	0.77	27	Mar-09	4/14/2009	0.64
4	Apr-07	5/4/2007	0.74	28	Apr-09	5/13/2009	0.33
5	May-07	6/5/2007	0.42	29	May-09	6/11/2009	0.33
6	Jun-07	7/5/2007	0.44	30	Jun-09	7/14/2009	0.42
7	Jul-07	8/7/2007	0.50	31	Jul-09	8/12/2009	0.62
8	Aug-07	9/7/2007	0.59	32	Aug-09	9/4/2009	0.83
9	Sep-07	10/5/2007	0.80	33	Sep-09	10/14/2009	0.74
10	Oct-07	11/6/2007	0.68	34	Oct-09	11/12/2009	0.80
11	Nov-07	12/6/2007	0.85	35	Nov-09	12/11/2009	0.83
12	Dec-07	1/7/2008	0.93	36	Dec-09	1/15/2010	0.93
13	Jan-08	2/7/2008	0.93	37	Jan-10	2/12/2010	1.04
14	Feb-08	3/6/2008	0.47	38	Feb-10	3/12/2010	1.25
15	Mar-08	4/10/2008	1.13	39	Mar-10	4/14/2010	1.14
16	Apr-08	5/9/2008	0.83	40	Apr-10	5/12/2010	0.83
17	May-08	6/10/2008	0.56	41	May-10	6/14/2010	0.75
18	Jun-08	7/11/2008	0.64	42	Jun-10	7/14/2010	0.73
19	Jul-08	8/11/2008	0.37	43	Jul-10	8/13/2010	0.80
20	Aug-08	9/11/2008	0.47	44	Aug-10	9/15/2010	0.74
21	Sep-08	10/10/2008	0.51	45	Sep-10	10/15/2010	0.72
22	Oct-08	11/11/2008	0.43	46	Oct-10	11/12/2010	0.84
23	Nov-08	12/10/2008	0.34	47	Nov-10	12/16/2010	0.73
24	Dec-08	1/13/2009	0.34	48	Dec-10	1/14/2011	0.84

B.3. Argentina's Fundamentals. Plots

FIGURE B.1. Argentina versus LATAM countries



B.4. Analysis of Bond Yields and Break-even Inflation Rate. Plots and tables

TABLE B.2. Static Information for Argentina's Bonds

(A) Dollar-denominated Bonds

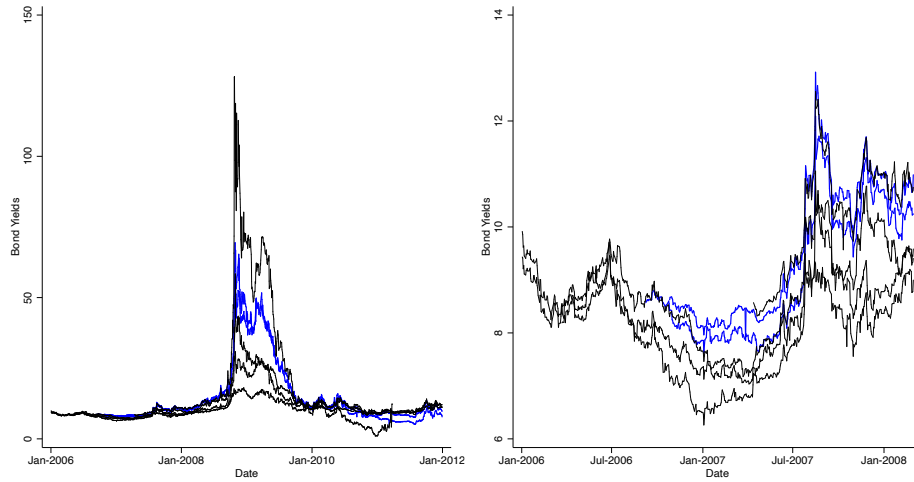
ISIN	Maturity	Currency	Coupon Frequency
ARARGE03F482	12jun2012	ARS	S/A
ARARGE03F243	28mar2011	USD	S/A
ARARGE03F342(*)	12sep2013	USD	S/A
ARARGE03F144(*)	03oct2015	USD	S/A
ARARGE03F441	17apr2017	USD	S/A
US040114GL81	31dec2033	USD	S/A
US040114GK09	31dec2038	USD	S/A

(B) Inflation-linked Bonds

ISIN	Maturity	Currency	Coupon Frequency
ARARGE03B309	15mar2014	ARS	Monthly
ARARGE03E931(*)	30sep2014	ARS	S/A
ARARGE035162	03jan2016	ARS	Monthly
ARBNAC030255	04feb2018	ARS	Monthly

FIGURE B.2. Yield of Argentina's Bonds

(A) Dollar-denominated Bonds



(B) Inflation-index Bonds

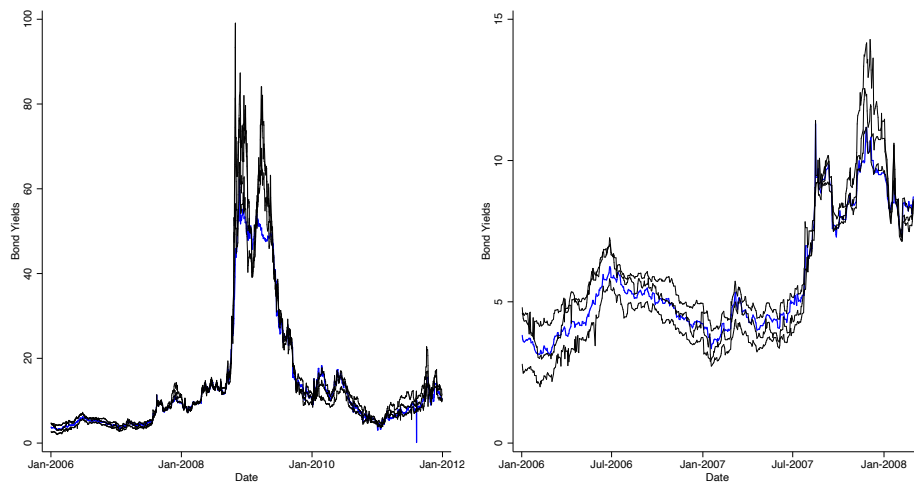
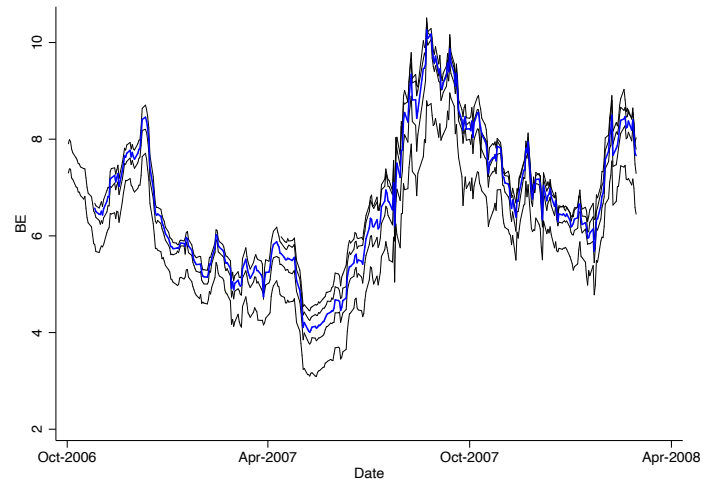
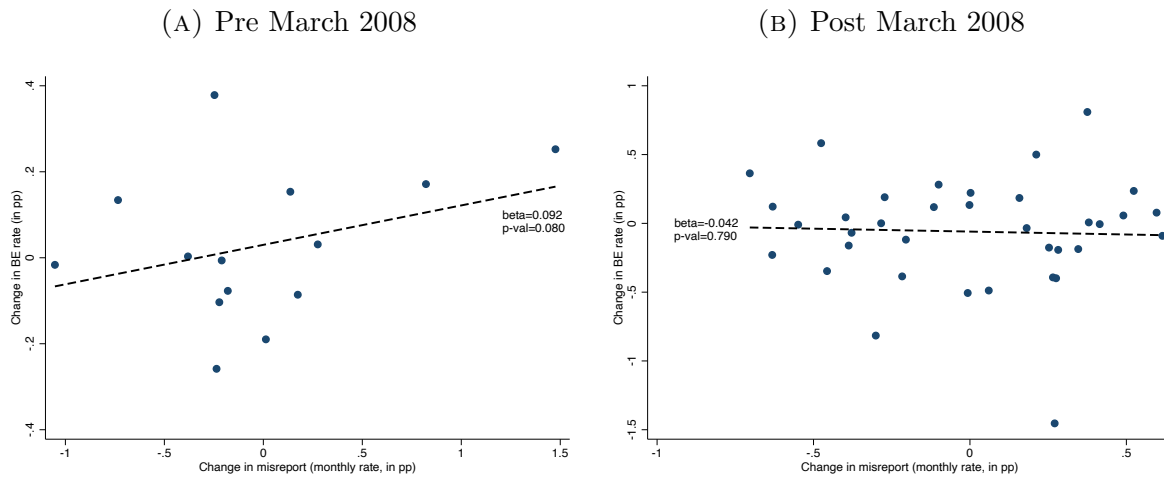


FIGURE B.3. Break-even Inflation Rate—Different Measures



B.5. Inflation Misreport and Changes in the BE inflation rate. Plots

FIGURE B.4. Changes in Break-even Inflation Rate and Inflation Misreport



B.6. Discussion: Exchange Rate Risk. Plots

FIGURE B.5. Changes in Expected Depreciation Rate and Inflation Misreport

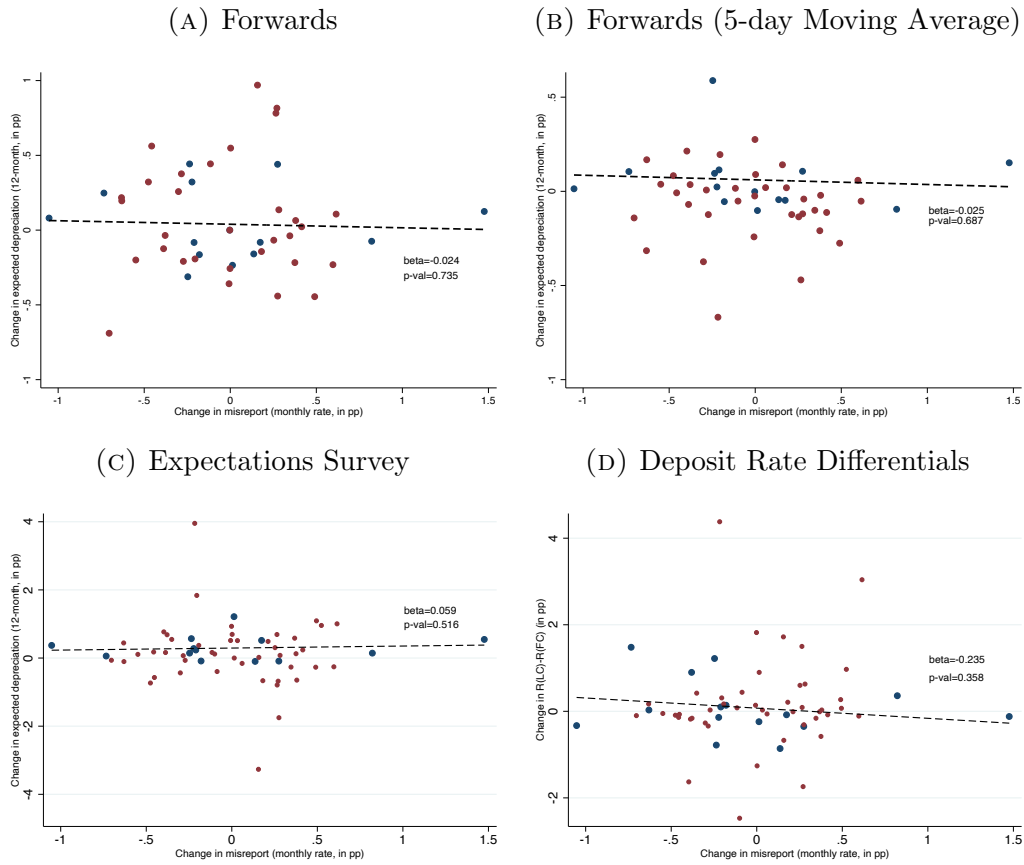
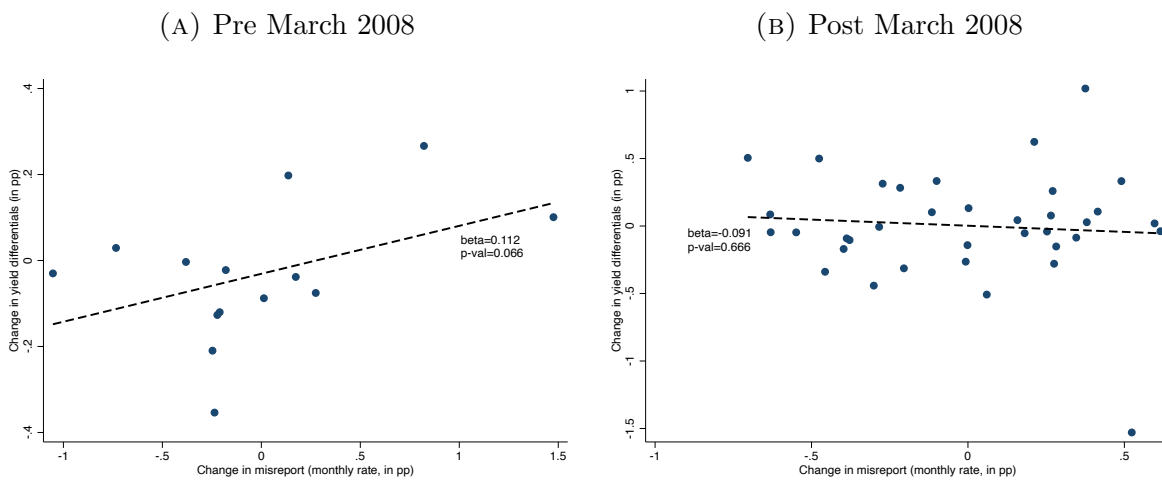


FIGURE B.6. Changes in Yields Differential and Inflation Misreport



B.7. Test of Identifying Assumption. Table

TABLE B.3. Test of Identifying Assumption

	Window 1	Window 2	Window 3	Window 4
<i>Window Type</i>				
Event	2-day window	3-day window	2-day window	3-day window
Non-event	All other days	All other days	4-day window	4-day window
<i>Standard Deviation</i>				
Event	0.294	0.265	0.294	0.265
Non-event	0.189	0.178	0.165	0.165
<i>Ratio Test: $\sigma_{\Delta BE,E} > \sigma_{\Delta BE,NE}$</i>				
<i>F-test</i>				
F-value	2.432	2.214	3.197	2.602
$P(F > f)$	0.000	0.000	0.000	0.001
<i>BC Bootstrap - One-Sided CI</i>				
90% CI Lower Bound	1.222	1.198	1.352	1.244
95% CI Lower Bound	1.116	1.120	1.221	1.163

B.8. Robustness Analysis. Tables

OLS Estimates

TABLE B.4. OLS Regression

(A) January 2007-February 2008

	(1)	(2)	(3)	(4)	(5)
Event Window	Full Sample	2-day Window		3-day Window	
ΔBE	-1.726*	-6.691***	-0.473	-6.783***	-0.666
Standard Error	(0.972)	(1.998)	(0.981)	(1.787)	(1.040)
Observations	258	24	234	36	219
Days Included	All	Event Days	Non-Event Days	Event Days	Non-Event Days
Controls	Yes	Yes	Yes	Yes	Yes

(B) January 2010-February 2011

	(1)	(2)	(3)	(4)	(5)
Event Window	Full Sample	2-day Window		3-day Window	
ΔBE	-0.184	-0.485	-0.132	-0.719	-0.034
Standard Error	(0.278)	(0.894)	(0.298)	(0.632)	(0.325)
Observations	259	25	234	39	219
Days Included	All	Event Days	Non-Event Days	Event Days	Non-Event Days
Controls	Yes	Yes	Yes	Yes	Yes

Event Study Results

TABLE B.5. Event-study Approach

Event Type	# Events	Obs	$\Delta \ln(\bar{SP}^A)$	J1-stat	$\Delta \bar{BE}$
2007-2008					
Good News Event	6	12	-2.229	-2.935	0.187
Bad News Event	5	10	1.477	1.775	-0.105
2010-2011					
Good News Event	5	10	-0.251	-0.400	0.283
Bad News Event	7	14	0.761	1.439	-0.208

B.10. Identified Structural VAR. Figure

FIGURE B.7. Impulse Response to a Misreport Shock

